PATENT ABSTRACTS OF JAPAN

(11)Publication number:

07-220735

(43) Date of publication of application: 18.08.1995

(51)Int.Cl.

H01M 4/96 C01B 31/02 C04B 38/06 D01F 9/16 D21H 11/00 H01M 4/88

(21)Application number: 06-023466

(71)Applicant: NIPPON CARBON CO LTD

(22)Date of filing:

26.01.1994

(72)Inventor: HIRATA KEIICHI

TSUJIHATA EIJI

(54) CARBON PAPER FOR FUEL CELL ELECTRODE AND MANUFACTURE THEREOF

(57)Abstract:

PURPOSE: To display cell performance in a thin type further with excellence for use in an electrode plate for a fuel cell by setting thickness, porosity, mean hole diameter, opening gas hole capacity and specific resistance of carbon paper to within a specific value range. CONSTITUTION: Carbon paper, constituted of carbon fiber and carbon, has a characteristic of 0.05

to 1.0mm thickness, 70 to 90% porosity, 10 to 30 μ m mean hole diameter, 2.0 to 4.0cc/g opening gas hole capacity and 0.1 Ω cm or less specific resistance. As a method of manufacturing this carbon paper, after cellulose system paper of 0.1 to 0.5 bulk specific gravity, 0.15 to 2.0mm thickness and 15 to 40 μ means hole diameter is primarily burned at about 1000°C by a 10°C/ time or less temperature rising speed, the paper is secondary burned at 1800°C or more. In this paper, as an electrode plate, excellent cell performance having a high holding amount of electrolyte with necessary strength is displayed, and also capable of corresponding to miniaturizing a cell with a thin type.

LEGAL STATUS

[Date of request for examination]

04.12.1997

[Date of sending the examiner's decision of

18.07.2000

rejection]

[Kind of final disposal of application other than

the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of

rejection

[Date of requesting appeal against examiner's